



Multiplelabs
Turnkey Laboratories Solutions

TGA-9603

Thermogravimetric Analyzer



►► **Product Introduction**

Thermogravimetric analysis (TG, TGA) is to observe the change of sample quality with temperature or time in the process of heating, constant temperature or cooling, the purpose is to study the thermal stability and composition of materials.

It is widely used in research and development, process optimization and quality monitoring various fields such as plastics, rubber, coatings, pharmaceuticals, catalysts, inorganic materials, metal materials and composite materials. Measure and study the following characteristics of materials: thermal stability, decomposition process, adsorption and desorption, oxidation and reduction, quantitative analysis of components, effects of additives and fillers, moisture and volatiles, reaction kinetics

►► **Main Features**

- The balance comes with internal calibration function, which has better accuracy and repeatability.
- The imported alloy sensor is more resistant to corrosion and oxidation, and the sensor has high sensitivity.
- The heating of the furnace body is made of precious metal alloy wire, which reduces interference and is more resistant to high temperatures.
- Complete atmosphere control system, software settings are automatically switched, and data is directly recorded in the database.
- Using Cortex-M3 core ARM controller, the calculation processing speed is faster, and the temperature control is more accurate.
- Using USB two-way communication, fully realize intelligent operation.
- Using 7-inch 24bit color full-color LCD touch screen, real-time display of instrument status and data.
- It adopts top-opening structure, which is easy to operate. It is difficult to move the furnace body up and place the sample, and it is easy to damage the sample rod.
- Automatically generate and print test reports. The software has built-in test records, data processing and report formats, and automatically issues test reports

►► Technical Parameters

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| Temperature range | room temperature~1550°C |
| Temperature resolution | 0.01°C |
| Temperature fluctuation | ±0.1°C |
| Heating rate | 0.1~100°C/min |
| Temperature control method | heating, constant temperature |
| Measuring range of balance | 0.01mg~2g |
| Resolution | 0.01mg |
| Constant temperature time | 0~300min arbitrarily set |
| Display mode | characters large-screen LCD display |
| Atmosphere | inert, oxidizing, reducing, static, dynamic |
| Atmosphere device | built-in gas flow meter, including two-way gas switching and flow rate control |
| Software | Intelligent software can automatically record TG curve for data processing and print experimental reports |
| Data interface | standard USB interface, special software (free software upgrades from time to time) |
| Power supply | AC220V 50Hz |